2.5 MASS CORRECTIONS

Introduction

The mass correction screen is an interactive screen used to make mass changes to StEPS master and stat period control files. For example, a survey area determines that they want to populate the MUST field on the C1 file with 'M' for the current stat period. This change can be done using the mass correction screen.

The Mass Correction screen allows you to:

- ➤ Make mass changes to StEPS control file variables.
- ➤ Generate mass correction scripts to run as part of other script files.

Each mass correction parameter effects changes to only ONE control file field at a time. Thus, if a SAS code is entered to change anything other than the variable name indicated to update, all other changes will be ignored when updating the actual control file.

Each survey in StEPS will have a Mass Correction parameter dataset stored in a library called PARMLIB.MASSCT. When a mass correction parameter is run *interactively* and the program ran successfully, the production log will have "MASSCORR" recorded for the module and the "variable name" for the submodule in SURVLIB.PROCLOG. The number of control records corrected is placed in the other information field, i.e. '4 IDs corrected'. If the parameter is run through *batch* and the program ran successfully, the production log will have "BATCHUPD" as the module and "MASSCORR" as the submodule in SURVLIB.PROCLOG. The directory of the batch update information is placed in the other information field.

You can view the survey processing log by selecting the 'Production log' option from the MIS button on the StEPS main menu screen.

NOTE:

- **S** Only users with PARMPRIV = 'P' may define and run mass correction parameters.
- **S** Once a parameter is run, it can NOT be changed. It can be re-run as often as you need, but a new parameter must be added in order to modify the existing parameter you wish to change.

Accessing the Screen

- Click on the SURVEY SPECIFICATIONS button from the StEPS Main Menu.
- Click on the MASS CORRECTIONS button from the Survey Specifications Menu to display the following:

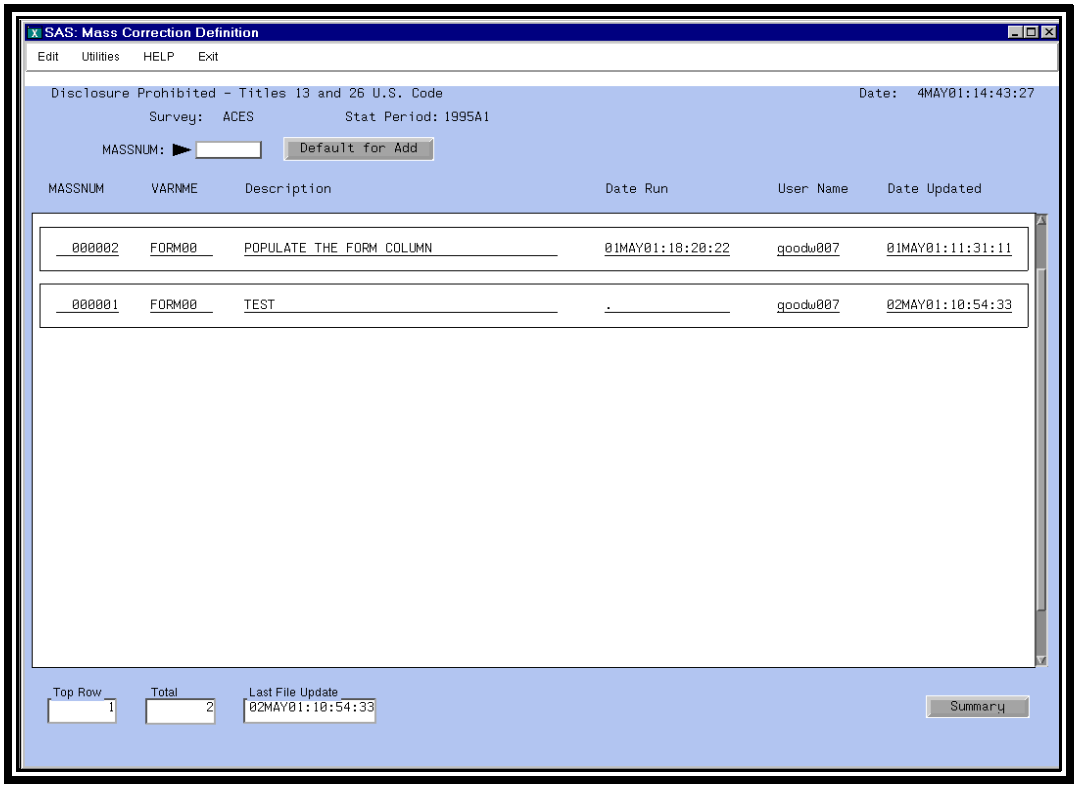

Figure 2.5.1 Mass Correction Menu screen

Note: You can also access the Mass Correction screen by:

a. Click on the RUN PROCESSES button from the StEPS Main Menu.
b. Click on the MASS CORRECTION button from the Run Processes Menu.

P-Menu

Mass Correction Main Menu screen

P-Menu	Options	Function
EDIT	Add Definition Delete Definition (F6) Update Definition (F2) View or Run Definition	Access control file mass correction screen Delete specified mass correction parameter Access control file mass correction screen Access view/run definition screen
UTILITIES	Next Page (PgDwn) Previous Page (PgUp) Top Bottom Print	Access next screen of parameters Access previous screen of parameters Access first record (mass corrections) Access last record (mass corrections) Print mass correction parameters
HELP	Mass Correction Help (F1) WhoamI (F7)	Display HELP information on using the Mass Correction screen Display user default and systems information
EXIT	StEPS Main Menu (Home) Exit (F3)	Return to StEPS Main Menu Exit to previous screen

2.5.1 ADDING a mass correction parameter:

1. Enter the test number in the “MASSNUM” field for the definition to be added. You can

also select the ‘Default for Add’ button to input the next subsequent test number. Note: The test number must be a 6-digit numeric code, else the following error message will be displayed:

‘*ERROR: (Invalid code) does not match informat specification. Please reenter*.’

2. Click on the EDIT p-menu.

3. Select the “Add definition” option to display the following screen:

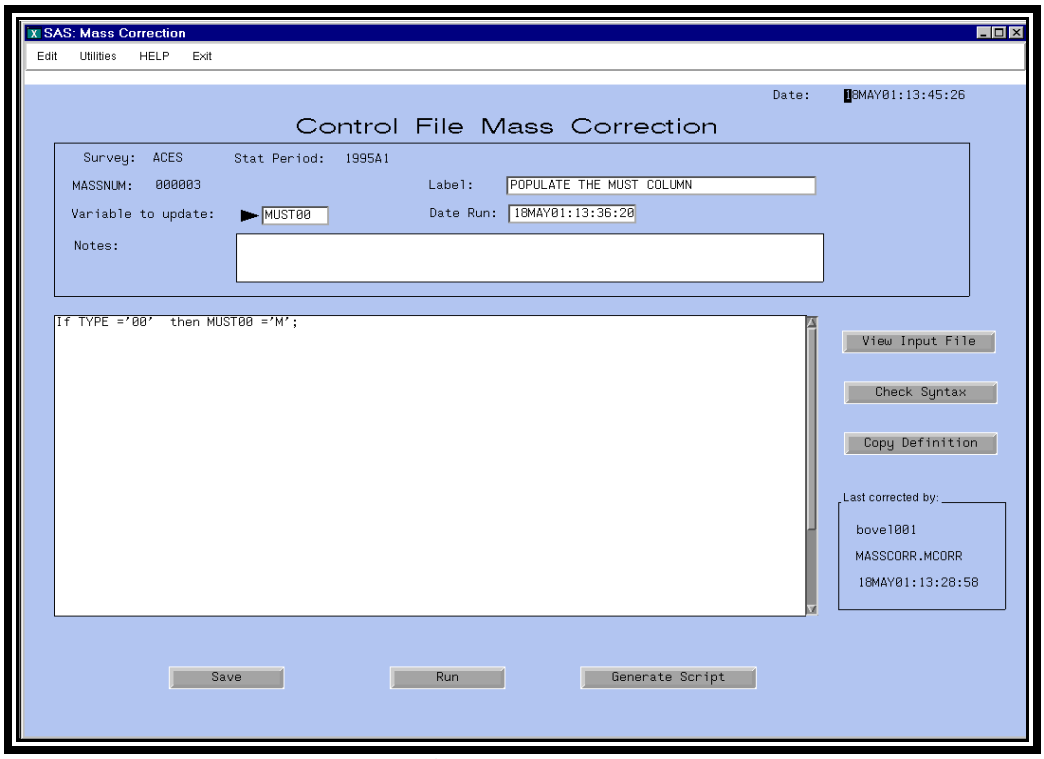

Figure 2.5.1a Control File Mass Correction Definition screen

4. When accessing the screen, a temporary fat record called “work.ctfat” is created with all the stat period and master control file variable names and data for two stat periods.

5. Specify the control file variable (from the control or C1 file) from the picklist of ‘variables to update’ that you want to update.

   Note: Pending on the stat period, current stat period variables have a suffix of ‘00' and prior stat period variables have a suffix of ‘01'. In the example above, ‘MUST00' is from the C1 file for the current stat period.

6. Enter a label in the ‘Label’ field. This is a required field that is used to display a description of the parameter.

7. The ‘Date Run’ field will initially be set to missing when adding a new definition. The field will only be populated with the program date/time stamp after the test has **successfully** run.

8. If applicable, enter any pertinent notes for the definition in the ‘Notes’ field.

9. Enter a SAS code condition in the box referencing the variable that you want to update from the master or C1 file. (i.e. If the variable to update is WSWTCH00, then a SAS code condition can state: *If STATUS00=’I’ then WSWTCH00=’D’*.)

   Note: Each parameter effects changes to only ONE control file field. Thus, if SAS code(s) are entered to change anything other than the variable specified in the ‘variable to update’ field, those changes will be ignored when updating the actual master file or C1 file. (i.e. *If TYPE = ‘00' then MUST01 = ‘M’ and SIC01 = ‘100';*. In this example, SIC01 = ‘100' will be ignored.)

   S Select the ‘Check Syntax’ button to verify that the SAS code is free of any syntax errors.

   S Select the “Copy Definition” button to if you want to copy SAS code(s) from an existing mass correction parameter.

   S Select the “View Input File” button to display the contents of the “work.ctfat” file. This screen displays the control file variables that are available for the current and prior stat periods. The current stat period variables have a suffix of ‘00' and prior stat period variables have a suffix of ‘01':

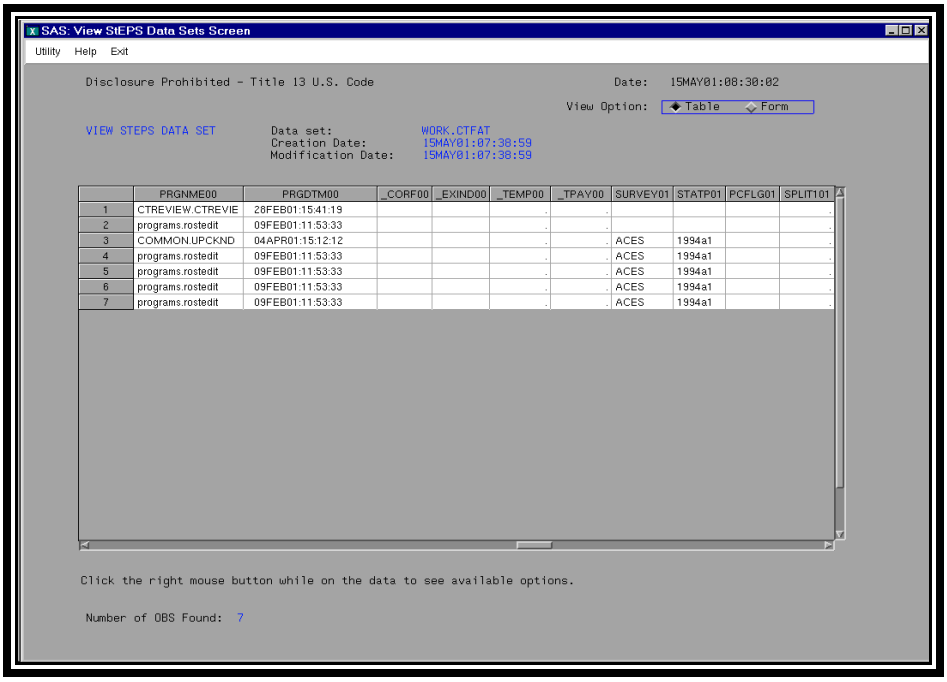

Figure 2.5.1b View Input File screen

! To **CANCEL** a mass correction parameter coding:

1. Exit the control file mass correction definition screen without selecting the 'Save' button or updating (F2) the SAS code.

2. Select the "Cancel" option from the EDIT pmenu. (You can cancel corrections made to a SAS code as long as it has not yet been updated (F2) or stored using the 'Save' button).

! To **SAVE** a mass correction parameter:

1. Enter the test number in the "MASSNUM" field you want to save or click directly on the massnum# in the mass correction menu screen to access the control file mass correction definition screen.

2. Select the 'Save' button from the control file mass correction definition screen.

3. *'MASSNUM ######## has been saved'* will be displayed at the top of the screen in red text indicating that the parameter has been stored and saved in PARMLIB.MASSCT. A mass correction parameter that is run through interactive or batch, will automatically be saved.

4. You can also save a parameter by selecting the "Update Definition" option from the EDIT pmenu or pressing F2.

! To **GENERATE** a mass correction script:

1. Enter the test number in the “MASSNUM” field you want to generate or click directly on the massnum# in the mass correction menu screen to access the control file mass correction definition screen.

2. Select the “Generate Script” button to generate a SAS script to run the mass correction parameter. For example, a survey already has a script in place to nightly populate the RSPCDE field on the C1 file. They created a mass correction parameter to populate the MUST field on the C1 file and they wanted to generate a SAS script for the mass correction populating the MUST field to run nightly as part of the script populating the RSPCDE field. This process can be done by generating a mass correction script.

3. The following message will be displayed indicating that a script has been generated:

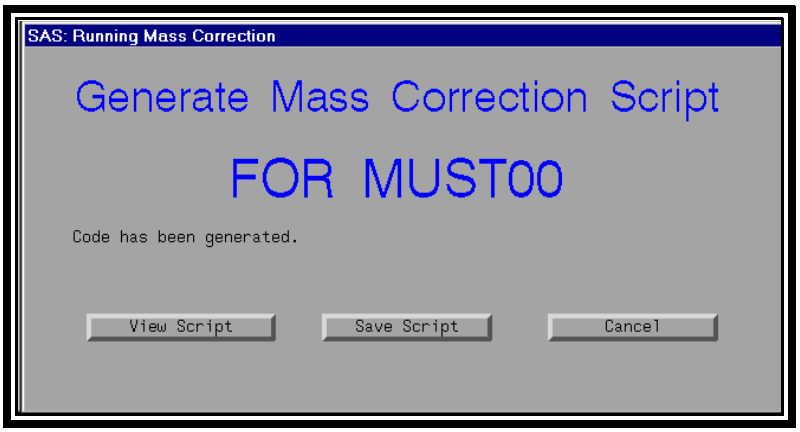

Figure 2.5.1c Generate Mass Correction Script screen

4. Select the ‘View Script’ button to view the actual sas script that was generated. Select the ‘Save Script’ button to store the actual script file to run the mass correction as part of another script or select ‘Cancel’ to abort the operation. The following message will appear displaying the output script name ($SPRGLIB/mcp_variable name_random#.sas):

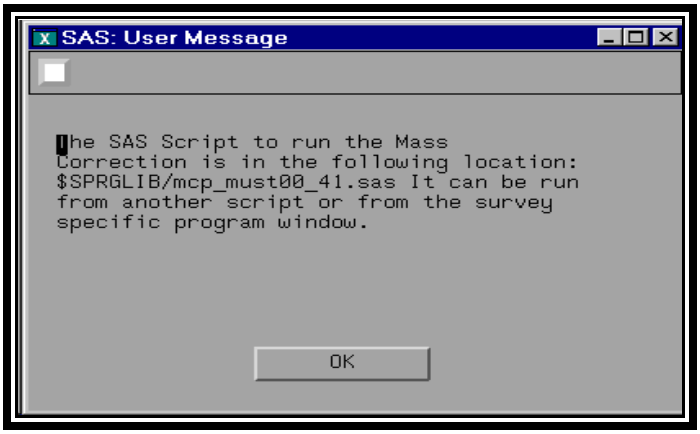

Figure 2.5.1d SAS script message

5. In order to run the SAS Script as part of another script, the destination script has to be edited to include the mass correction script. For example, in the illustration above for generating a script for MUST00 to run nightly from the script populating the RSPCDE field, the destination script, which populates the RSPCDE field, must be edited to include the mass correction script ($SPRGLIB/mcp_MUST00_41.sas), which populates MUST00 (See figure 2.5.1e). This editing can be done by your survey area's production programmer or StEPS development programmer. The program to run the mass correction script by itself or as part of another script is accessible from the 'Survey Specific Programs' screen under the RUN PROCESSES module.

Figure 2.5.1e Edit program option from Survey Specific Programs screen

6. **Make sure no more than ONE mass correction script for a survey is being run during batch update. Mass correction script(s) may overwrite each other if selected to run concurrently.**

! To **RUN** a mass correction parameter:

1. Enter the test number in the “MASSNUM” field you want to run or click directly on the massnum# in the mass correction menu screen to access the control file mass correction definition screen.

2. Select the ‘Run’ button from the control file mass correction definition screen.

3. When the program runs the SAS code, a copy of the unchanged “work.ctfat” file is made prior to mass correction changes and the SAS code is applied to that copy of the unchanged file in a data step. The newly modified ctfat file, which includes mass correction updates, and the unchanged ctfat files are compared by the system to see if any of the specified variables have changed. If the variables have changed, the screen below, will display indicating the number of changed variables that were generated and written to a file in batch update sdo format. The user can either choose to view the SDO records, continue with running interactive updates, batch updates, or cancel.

Figure 2.5.1f Run Mass Correction screen

A. Select the ‘View SDO records’ button to display the following screen. This screen displays the records that will be updated when you actually run the program interactively or in batch update.

Note: It is imperative that you view this screen prior to running interactive or batch to make sure the file will be updated correctly.

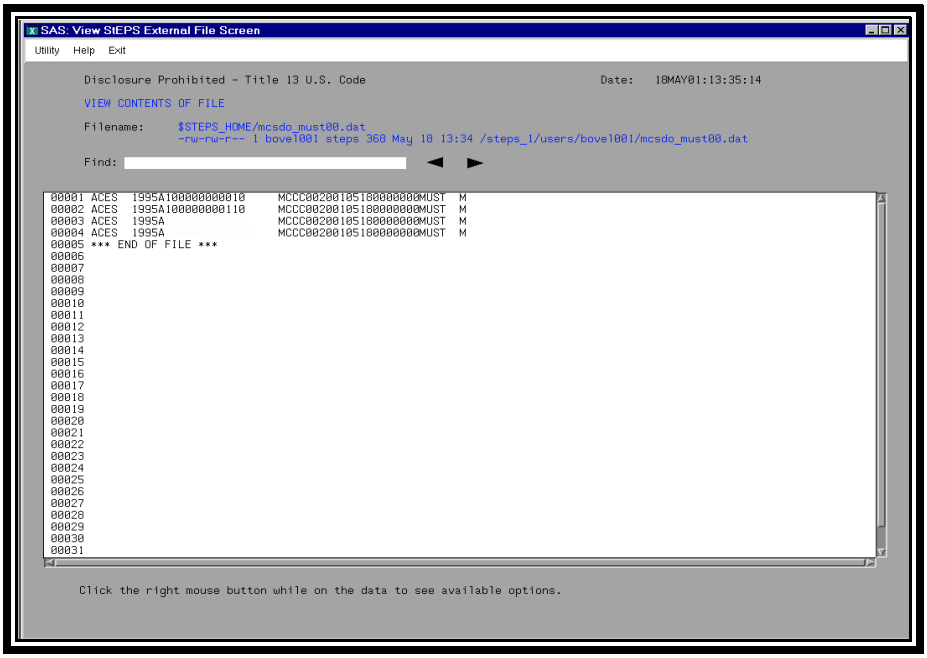

Figure 2.5.1g View SDO records screen

B. Select the 'Interactive Update' button to run the mass correction parameter. Results from running the interactive update are applied immediately to the control file and all corrections are stored in temporary data sets, audit or disposition listings, SDO records, and a log.

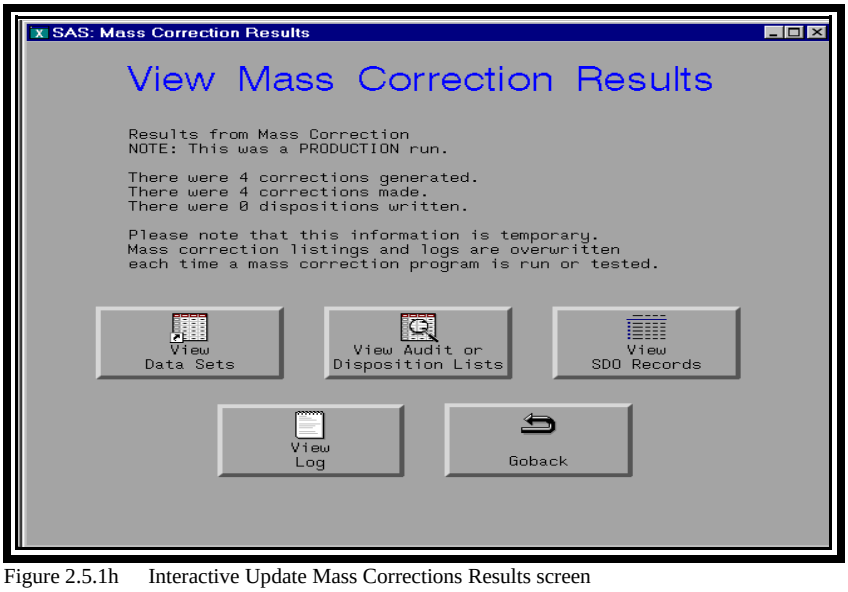

Figure 2.5.1h Interactive Update Mass Corrections Results screen

- Select the ‘View Data Sets’ option to view the contents of one of the following datasets:

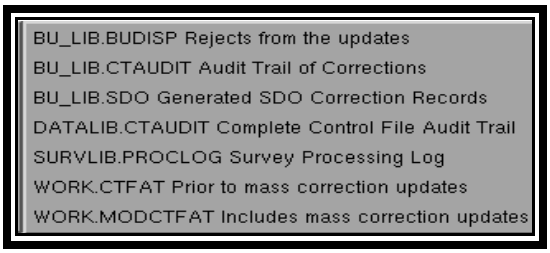

Figure 2.5.1i Data set option listings

- Select the “View Audit or Disposition Lists’ button to view the contents of the following listings:

Figure 2.5.1j View Audit or Disposition Listings

- Select the ‘View SDO records’ button to view a list of the updates that were applied to the master or stat period control files. (See Figure 2.5.1g)

- Select the ‘View Log’ option to display the message log of the updated information from the mass correction job.

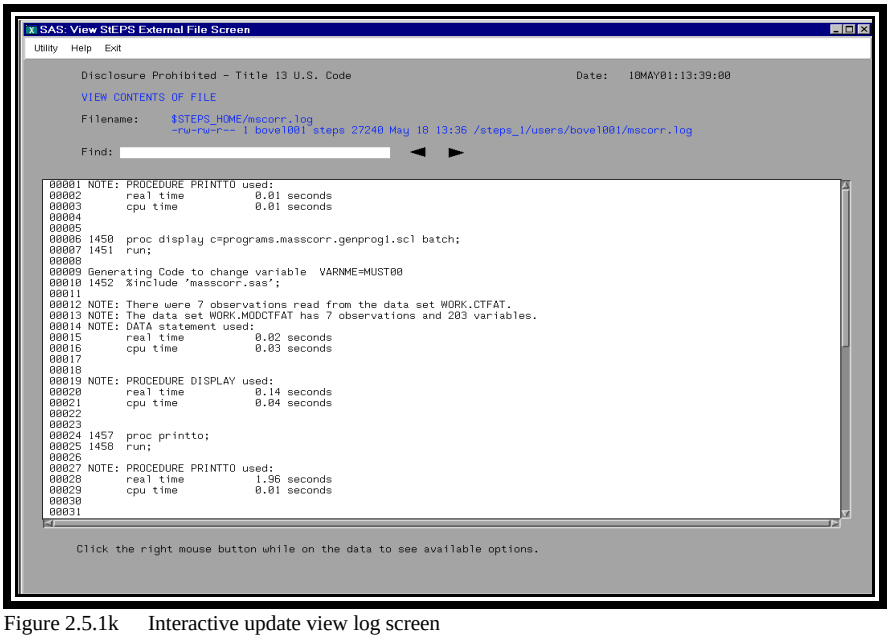

Figure 2.5.1k Interactive update view log screen

C. Select the 'Batch Update' button to run the mass correction parameter. Like the interactive update, batch update corrections are applied immediately to the control file, but batch updates are stored permanently. Batch update files can be reviewed from the 'Batch Update Information' screen under the RUN PROCESSES module.

Figure 2.5.1l Batch update mass correction screen

D. When the batch update option is selected, various program files will be generated. (See screen above). The following message will be displayed indicating that the mass correction is running in batch:

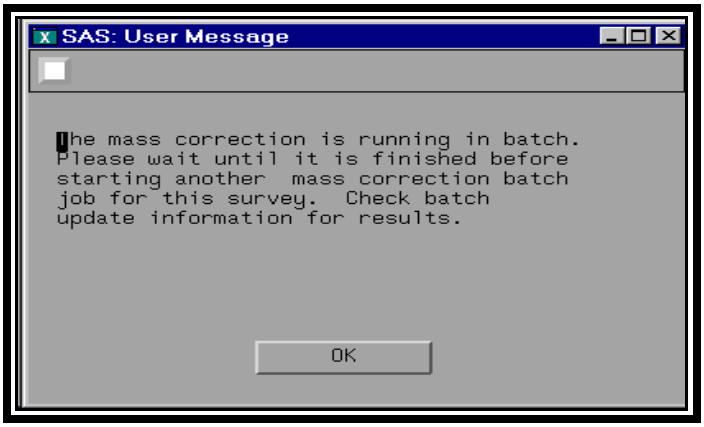

Figure 2.5.1m Batch update user message screen

! Click on the 'OK' button to continue the process.

E. The program will revert back to the mass correction menu screen if all mass corrections were successfully updated. However, if no corrections were generated, the following message will appear:

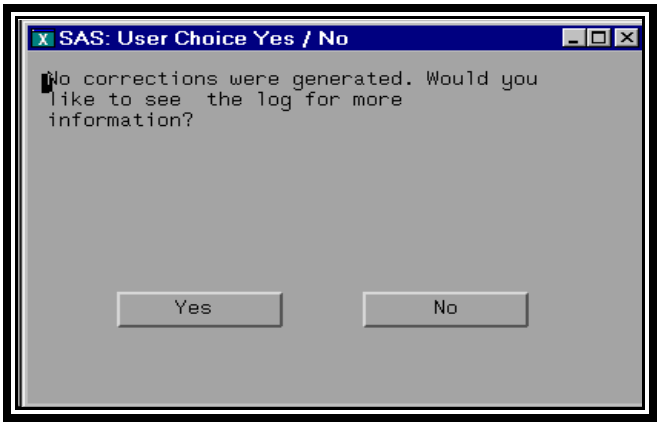

Figure 2.5.1n User choice screen

1. Click on “Yes” to view the log of the mass correction information.
2. Click on “No” if you do not wish to view the log.

3. Whenever a mass correction is run, either interactively, in batch, or as part of a script, the date_run field on the PARMLIB.MASSCT record for that parameter is updated with the current date and time and SURVLIB.PROCLOG is updated with information from the mass correction job. You can view this survey processing log by selecting the ‘Production log’ option from the MIS button on the StEPS main menu screen.

4. **Make sure no more than ONE mass correction script for a survey is being run during batch update. Mass correction script(s) may overwrite each other if selected to run concurrently.**

5. Once a parameter is run, it can NOT be changed. It can be re-run as often as you need, but a new parameter must be added in order to modify the existing parameter you wish to change.

2.5.2 UPDATING a mass correction parameter:

1. Enter the test number in the “MASSNUM” field you want to update or click directly on the massnum# in the mass correction menu screen to access the control file mass correction definition screen.

2. Select the “Update Definition” option from the Edit pmenu on the Mass Correction menu screen or press ‘F2' to access the control file mass correction screen. You can also click on the MASSNUM field to access the screen to update the parameter.

3. If you choose to update a parameter and it has never been run, you can delete, edit, test, or

run the parameter. However, if a parameter has already been run, you cannot change the parameter. It can be re-run as often as needed, but a new mass correction parameter must be added in order to modify the existing parameter you want to change.

2.5.3 To VIEW or RUN a mass correction parameter:

1. Enter the test number in the "MASSNUM" field you want to view/run.

2. Select the "View or Run definition" option from the Edit pmenu on the Mass Correction menu screen to display the following screen:

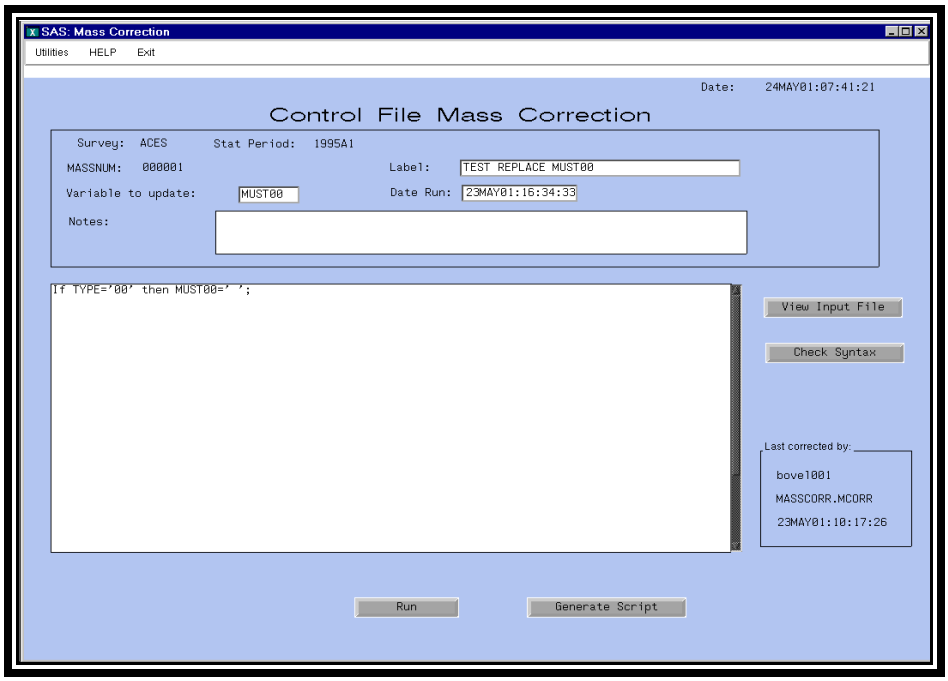

Figure 2.5.3 View/Run Control File Mass Correction screen

3. If the parameter has never been run, you can run the parameter from the following screen. However, if a parameter has already been run, you can either view the parameter or re-run the parameter as often as needed, but you cannot modify the parameter in this screen. (See Section 2.5.1, Adding a parameter, for running a mass correction parameter)

2.5.4 DELETING a mass correction parameter:

1. Enter the test number in the “MASSNUM” field you want to delete.

2. Select the “Delete Definition” option from the Edit pmenu on the Mass Correction menu screen or press ‘F6' to delete the definition.

3. If you add a parameter and it has never been run, you can delete the parameter. However, you can not delete a mass correction parameter if it has already been run and has a date run time.

4. The following message will appear confirming that you want to delete a mass correction parameter:

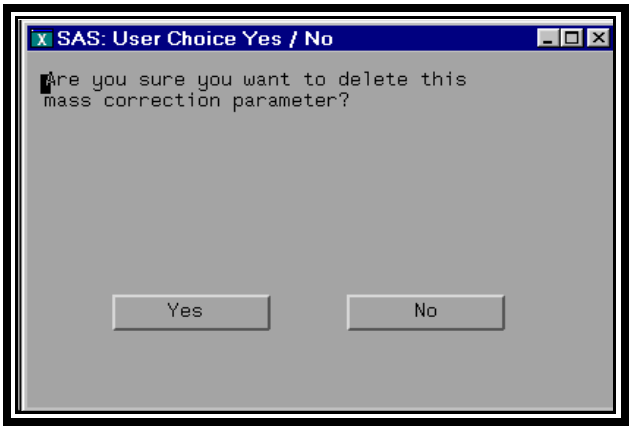

Figure 2.5.4 User Choice screen

   1. Click on “Yes” to delete the mass correction information.
   2. Click on “No” to return back to the mass correction menu screen.

4. A message will appear confirming that the parameter was deleted successfully.

P-Menu

Control File Mass Correction screen

P-Menu	Options	Function
EDIT	Update Definition (F2) Cancel	Updates corrections to the database Cancels changes not yet updated
UTILITIES	Print	Print View/Run Definition screen
HELP	Mass Correction Help (F1) WhoamI (F7)	Display HELP information on using the Mass Correction screen Display user default and systems information
EXIT	StEPS Main Menu (Home) Exit (F3)	Return to StEPS Main Menu Exit to previous screen

View StEPS data sets screen

P-Menu	Options	Function
UTILITY	Top Bottom	Access first data item Access last data item
HELP	Dataset Browse Help (F1) WhoamI (F7)	Display HELP information on using the View StEPS data set screen Display user default and systems information
EXIT	Exit (F3)	Exit to previous screen

View/Run Control File Mass Correction screen

P-Menu	Options	Function
UTILITIES	Print	Print View/Run Definition screen
HELP	Mass Correction Help (F1) WhoamI (F7)	Display HELP information on using the Mass Correction screen Display user default and systems information
EXIT	StEPS Main Menu (Home) Exit (F3)	Return to StEPS Main Menu Exit to previous screen